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| APPLICATION NO.       | FILING DATE                  | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------------|------------------------------|----------------------|---------------------|------------------|
| 10/525,750            | 08/22/2005                   | Alexander C. Riseman | E3331.0657          | 2077             |
| 32172<br>DICKSTEIN SI | 7590 11/24/201<br>HAPIRO LLP | EXAMINER             |                     |                  |
| 1633 Broadway         | ,                            | AMELUNXEN, BARBARA J |                     |                  |
| NEW YORK, NY 10019    |                              |                      | ART UNIT            | PAPER NUMBER     |
|                       |                              |                      | 3694                |                  |
|                       |                              |                      |                     |                  |
|                       |                              |                      | MAIL DATE           | DELIVERY MODE    |
|                       |                              |                      | 11/24/2010          | PAPER            |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

|  | Application No.   | Applicant(s)   |  |  |  |
|--|---|--|--|--|--|
|  | 10/525,750  | RISEMAN ET AL.   |  |  |  |
| Office Action Summary  | Examiner  | Art Unit   |  |  |  |
|  | B. Joan Amelunxen   | 3694   |  |  |  |
| The MAILING DATE of this communication app   | ears on the cover sheet with the c  | orrespondence address  |  |  |  |
| Period for Reply   |   |  |  |  |  |
| A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period v  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE | N. nely filed the mailing date of this communication. D (35 U.S.C. § 133). |  |  |  |
| Status   |   |  |  |  |  |
| 1)⊠ Responsive to communication(s) filed on <u>01 No</u>   | ovember 2010  |  |  |  |  |
| ·— · · · · · · · · · · · · · · · · · ·   | action is non-final.  |  |  |  |  |
| · <del>-</del>   | <u> </u>  |  |  |  |  |
| closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  |   |  |  |  |  |
| Disposition of Claims  |   |  |  |  |  |
| 4)⊠ Claim(s) <u>1-19,33 and 34</u> is/are pending in the application.  |   |  |  |  |  |
| 4a) Of the above claim(s) <u>20-32 and 35-42</u> is/are withdrawn from consideration.  |   |  |  |  |  |
| 5) Claim(s) is/are allowed.  |   |  |  |  |  |
| 6)⊠ Claim(s) <u>1-19 and 33-34</u> is/are rejected.  |   |  |  |  |  |
| 7) Claim(s) is/are objected to.  |   |  |  |  |  |
| 8) Claim(s) are subject to restriction and/or  | r election requirement.   |  |  |  |  |
| Application Papers   |   |  |  |  |  |
| 9) The specification is objected to by the Examine   | r   |  |  |  |  |
| 10) The drawing(s) filed on <u>02/25/05 &amp; 03/15/10</u> is/are: a) accepted or b) objected to by the Examiner.  |   |  |  |  |  |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  |   |  |  |  |  |
| Replacement drawing sheet(s) including the correct   |   |  |  |  |  |
| 11)☐ The oath or declaration is objected to by the Ex  | aminer. Note the attached Office  | Action or form PTO-152.  |  |  |  |
| Priority under 35 U.S.C. § 119   |   |  |  |  |  |
| 12)☐ Acknowledgment is made of a claim for foreign   | priority under 35 U.S.C. § 119(a)   | o-(d) or (f).  |  |  |  |
| a)   |   |  |  |  |  |
| 1.☐ Certified copies of the priority documents have been received.   |   |  |  |  |  |
| 2. Certified copies of the priority documents have been received in Application No   |   |  |  |  |  |
| 3. Copies of the certified copies of the priority documents have been received in this National Stage  |   |  |  |  |  |
| application from the International Bureau (PCT Rule 17.2(a)).  |   |  |  |  |  |
| * See the attached detailed Office action for a list of the certified copies not received.   |   |  |  |  |  |
|  |   |  |  |  |  |
| Attachment(s)  |   |  |  |  |  |
| 1) Notice of References Cited (PTO-892)  | 4) Interview Summary  |  |  |  |  |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)   | Paper No(s)/Mail Da<br>5) Notice of Informal P  |  |  |  |  |
| Paper No(s)/Mail Date 6) Other:  |   |  |  |  |  |

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### **DETAILED ACTION**

### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicants' submission filed on 10/06/2010 and Applicants' supplemental remarks filed on 11/01/2010 have been entered.

#### Status of Claims

- 2. In response to Examiner's Requirement for Restriction/Election of US Application No. 10/525,750, Applicant's election of Claims 1-19 and 33-34 in the reply filed on August 1, 2008 was acknowledged in a First Office Action mailed on October 6, 2008. Today, we respond to Applicants arguments submitted with the supplemental remarks on 11/01/2010.
  - 3. In the present Application #10,525,750:

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• Independent Claims 1, 17, 18, and 33-34 were currently amended.

- Dependent Claims 2-16, and 19 have been previously presented,
- While dependent Claims 20-32 and 35-42 were withdrawn,
- Overall, Claims 1-19 and 33-34 are <u>being considered below</u>, in response to the Arguments presented on November 1, 2010.

## Remarks to Amendments/Arguments

- 4. Applicants' request for a re-examination filed on November 1, 2010 has been fully considered and the amendments and remarks have been re-examined. However, the Examiner respectfully has to state that they are not all persuasive.
- 5. Regarding Applicant's Remarks, as to the 35 U.S.C. 103(a) rejections of amended Claims 1-19 and 33-34, Applicants argue that:
  - (i) <u>Gilbert et al.</u> (US 2003/0088501, hereinafter referred to as "Gilbert"), in view of <u>Brian T. Dawson</u> (US 2002/0042765, hereinafter referred to as "Dawson"), and further in view of <u>David Gershon</u> (US 2005/0027634, hereinafter referred to as "Gershon") and/or
  - (ii) <u>Gilbert et al.</u> (US 2003/0088501, hereinafter referred to as "Gilbert"), in view of <u>Brian T. Dawson</u> (US 2002/0042765, hereinafter referred to as "Dawson"), in view of David Gershon (US 2005/0027634, hereinafter referred to as "Gershon"),

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and further in view of <u>Silverman et al</u> (US 5,136,501, hereinafter referred to as "Silverman") and/or

- (iii) <u>Gilbert et al.</u> (US 2003/0088501, hereinafter referred to as "Gilbert"), in view of <u>Brian T. Dawson</u> (US 2002/0042765, hereinafter referred to as "Dawson"), in view of <u>David Gershon</u> (US 2005/0027634, hereinafter referred to as "Gershon"), in view of <u>Silverman et al</u> (US 5,136,501, hereinafter referred to as "Silverman"), and in further view of <u>Togher et al</u>. (US 6,014,627, hereinafter referred to as "Togher") do not teach several features of the invention, such as in the following amended claims:
- (a) Applicants argue that neither <u>Gilbert</u> (US 2003/0088501) nor Dawson (US 2002/0042765) teach: <u>Paraphrased Claims 1, 17, 18, 33, and 34 (2<sup>nd</sup> limitation)</u> (See Remarks, pages 8-9):

"defining a minimum indicative rates spread and adjusting the best price rates to maintain the recited spread." (See Remarks, page 9, 1<sup>st</sup> paragraph): (see <u>Gilbert</u>: **Fig. 5**, where step **503** shows the bids and offers postings of step **350** of **Fig. 3B**; and step **508** of **Fig. 5** determines if price is better than or equal to market price; [¶¶ 0008, 0010, 0032, 0041, 0051]. <u>Gilbert</u> further teaches: "Qualified traders may be traders that are associated with the best bids and offers. The best bids and offers are bids and offers in the general market that have prices that meet <u>predetermined criteria</u>. The predetermined criteria may include, for example, prices that are within a predetermined range of the market price (e.g., all bids and offers that are within 0.05 of the market price

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qualify for being admitted into the inside market) or when the number of users joined associated with the best price is greater than or equal to a predetermined number or when the <u>spread (e.g., difference)</u> between the bid and offer prices is <u>less than</u> a <u>predetermined difference...</u> The inside market is similar with respect to the general market, except that only bid and offer prices that improve on the general market price will be accepted for this inside market session." (see <u>Gilbert</u>: [¶ 0010]). It should be noted that a predetermined criteria can be set at any value, while the predetermined difference (e.g., "adjusting") can be larger than the actual spread); and

This question was basically argued and answered in the previous Office Action, where the Examiner responded as follows:

### " indicative rates"

Applicants state that <u>Gilbert</u> merely describes best bids and offers in the general market that have prices that meet predetermined criteria (see <u>Gilbert</u>: [¶ 0010]), while <u>Dawson</u> merely produces an actual price that is available in the market. Applicants conclude that <u>indicative prices are not actual prices to be traded</u>.

The Examiner disagrees partially with Applicants' arguments. <u>Dawson</u> indeed teaches about actual prices, but <u>Dawson</u> also teaches about calculated bid and offer prices (see <u>Dawson</u>: [¶¶ 0270, 0274, 0462-0467]. In fact, <u>Dawson</u> teaches: "prices and quoted prices according to different criteria. . . . . Said validation criteria may be such as to permit substitution by trading price information provided that it is within certain tolerance limits" [¶ 0027] (See also

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Abstract; [¶¶ 0020, 0023, 0027-0030, 0032, 0046, 0122, 0124, 0131, 0158, 0327, 0334, 0429

However, <u>Dawson</u> was not utilized to teach this particular limitation, as <u>Gilbert</u> and <u>Gershon</u> were found more useful to explain the using of the adjusted traded bids/offers, and discarding those that had high fluctuations, in order to obtain a greater or equal spread than the minimum spread. Therefore, this particular argument, regarding <u>Dawson</u>, should be moot, as <u>Gilbert</u> and <u>Gershon</u> were used, as can be seen below.

Notwithstanding the above, the Examiner would like to go now to the Specification, in order to find out how the Specification defines "indicative rates", and we find that the application states:

Broadly, the **indicative rates** are derived from best bid and offer rates from the market by defining a minimum indicative rates spread between bid and offer prices and adjusting the best price rates to maintain a spread greater or equal to the defined minimum indicative rates spread and greater than the best price spread. (see Specification, Page 2, lines 13-18)

Preferably the derivation of indicative bid and offer rates comprises setting the **indicative rate** bid and offer prices to the received best bid and offer prices for **completed transactions**, and alternately adding an amount to the indicative offer rates and subtracting an amount from the indicative bid rates until the spread between the indicative bid and offer rates is greater than or equal to the predefined minimum indicative rates spread and greater than the spread between the best bid and offer prices. (see Specification, Page 3 lines 3-11)

"...the invention provides a method of processing ...trades of a **fungible instrument**, comprising the steps of: <u>receiving best price bid and offer rates</u> for transactions in the instrument; and <u>filtering received best price bid and offer rates to remove high frequency fluctuations</u> in the received rates to obtain indicative bid and offer rates, the **indicative rates** being **adjusted** only to maintain a predetermined minimum spread.

This aspect of the invention also resides in a system for processing deal information relating to trades of a fungible instrument, comprising: the processing module comprising: a filter for filtering received best price bid and offer rates to remove high frequency fluctuations in the received rates to obtain indicative bid and offer rates,

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and an **indicative rates adjuster** for adjusting the indicative rates <u>only to maintain a predetermined minimum spread</u>" (see Specification, Page 4, lines 10-29)

Thus, from the above, we can summarize that the "indicative rates" are obtained from the best bid/offer rates which are simply obtained from the minimum rate spread between bid/offer prices, in order to then adjust those best price rates so that a spread greater or equal is obtained.

As stated in the previous Office Action, <u>Gilbert</u> teaches in paragraphs [¶¶ 0007-0008] that:

"...This market cell may display a wide spectrum of prices. That is, the market cell may display several prices that deviate from the market price. The prices are typically displayed as a stack. The best bid price (i.e., highest price at which a trader is willing to buy an item) and best offer price (i.e., lowest price a trader is willing to sell an item) are listed at the top of a bid stack and an offer stack, respectively.

There may be several participants associated with the best bid and/or best offer. That is, several traders may have placed bids at or near to the best bid price and several traders may have place offers at or near to the best offer price. The "market price" as defined herein, constitutes prices that represent the best bid(s) and best offer(s). For example, if the bid price is 6.50 and the offer price is 6.40 at a given or predetermined volume, then the market price is 6.50 bid, 6.40 offer, or 6.45 mid. Therefore, the best bids and offers, as defined for this invention, have prices relatively close to the market price.

Thus, <u>Gilbert</u> uses prices relatively close to the market price, the market price being defined the best bid/offer price<sup>1</sup>. Aren't Gilbert's "prices close to the

<sup>1</sup> Please see further explanations on this particular topic of the invention, under the 35 USC 103(a) rejection of Claims 1, 17, 33, and 34 (2<sup>nd</sup> limitation).

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market price" the same as the present invention's "adjusted price" or "indicative rate"?

Additionally, <u>Gilbert</u> uses predetermined criteria to select bids and offers that will be accepted into the inside market [¶ 0010]. <u>Gilbert</u> does not use actual market prices but rather uses values that are "similar with respect to the general market, except that only bid and offer prices that improve on the general market price will be accepted for this inside market session" [¶ 0010].

Today, the Examiner reaffirms her remarks and would like to respectfully add some new thoughts to this argument of Applicants.

Going back to the specification, we have that:

Preferably the derivation of indicative bid and offer rates comprises setting the **indicative rate** bid and offer prices to the received best bid and offer prices for **completed transactions**, and alternately adding an amount to the indicative offer rates and subtracting an amount from the indicative bid rates until the spread between the indicative bid and offer rates is greater than or equal to the predefined minimum indicative rates spread and greater than the spread between the best bid and offer prices. (see Specification, Page 3 lines 3-11)

Thus, if the indicative rates are the best bid and offer prices of completed or executed transactions which form a minimum spread between them, Applicants state that by adding an amount to the offer rate and subtracting an amount from the bid rate, will being with it a spread between the bid and offer rates of a first

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alternative of: *greater than* <u>or</u> a seconding alternative of: *equal to* the predefined minimum indicative.

Thus, looking first to the second alternative, we have that the invention requires the adjustment to the best bid and offer rates to be equal to the minimum spread, which automatically means that there is <u>no adjustment</u> necessary, as the best bid/offer area always form a minimum spread between them. As the limitation is in the alternative, there is no necessity to demonstrate the first alternative which is greater than the minimum spread. Therefore, the prior art of record, does teach this limitation.

(b) Applicants argue that neither <u>Gilbert</u> (US 2003/0088501) nor Dawson (US 2002/0042765) teach: <u>Paraphrased Claims 1, 17, 18, 33, and 34 (2<sup>nd</sup> limitation)</u> (See Remarks, pages 8-9):

"calculate or derive indicative rates based on completed transactions" (See Remarks, page 9, one to the last paragraph):

This question was also basically argued and answered in the previous Office Action, where the Examiner responded as follows:

"...calculate an indicative price..."

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However, this argument is moot, as nowhere in the claims can similar

language be found.

Nowhere is there any mention about calculating. And, by definition, the best

bid and offer rate always form a minimum spread; therefore, this feature requires no

adjustment whatsoever.

(c) The Examiner would like to further point out that the US Patent and

Trademark Office (USPTO) is obliged to give claims their broadest reasonable

interpretation consistent with the specification during proceedings before the

USPTO. See In re Zletz, 893 F.2d 319 (Fed.Cir. 1989) (thus, during patent

examination the pending claims must be interpreted as broadly as their terms

reasonably allow). Therefore, the Examiner will further answer these argument in

the 35 USC 112, 2<sup>nd</sup> paragraph, rejection.

Claim Rejections - 35 USC § 112

6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

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The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

7. Claims 1-19 and 33-34 are rejected under 35 U.S.C. 112, second

paragraph, as being indefinite for failing to particularly point out and distinctly

claim the subject matter which applicant regards as the invention.

8. The scope of Claims 1, 4, 6-12, 17-19, and 33-34 (and any other claim that

the Examiner may have inadvertently missed) is unclear, as the term "indicative rate"

is an indefinite and meaningless phrase. It is unclear as to what type of inferences,

Applicant is referring to. (In re Zletz, 13 USPQ2d 1320 (Fed.Cir.1989)). The term

"indicative rate" is not defined in the specification. Accordingly, the term is given its

broadest reasonable definition.

Furthermore, the term as used in the specification and claims is understood to mean that an "indicative rate is a rate which serves to indicate the rate of completed transactions". The claim does not specify <u>how</u> the indicative rate is calculated or that it is <u>different</u> from the best price spread, since the claim encompasses an adjustment in which the minimum indicative spread is equal to the best price spread (essentially what appears to be then a zero adjustment). Therefore, since the best price bid and offer rates of completed transactions is the minimum price spread, which in turn can be equal

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to the minimum indicative price spread, then the *minimum indicative rates spread* cannot be greater than the best price spread, as required by the claims.

It is noted that the specification indicates that received best price bid and offer rates can be filtered "to remove high frequency fluctuations in the received rates to obtain indicative bid and offer rates" (see Specification, page 4, lines 15-16).

The specification further discloses:

"...discarding best prices for a deal amount less than a predetermined amount; and discarding best prices for which there is no supporting price for an amount greater or equal to the minimum amount at the same or a higher (for offer) or lower (for bid) price within a predetermined period; and establishing a market high or low from the highest or lowest remaining price if they exceed the existing market high or low" (see Specification: page 5, lines 23-29).

Thus, while the specification discloses means for obtaining an indicative rate that differs from the best price spread of completed transactions, the claims do not require any adjustment. Clarification or correction is required.

9. Therefore, **Claims 2-16 and 19** are also rejected, as they depend respectively on independent Claims 1 and 18.

# Claim Rejections - 35 USC § 103

10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

11. Claims 1, 10-18, 33, and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over <u>Gilbert et al.</u> (US 2003/0088501, hereinafter referred to as "Gilbert"), in view of <u>Brian T. Dawson</u> (US 2002/0042765, hereinafter referred to as "Dawson"), and further in view of <u>David Gershon</u> (US 2005/0027634, hereinafter referred to as "Gershon")

Regarding Claims 1, 17, 33, and 34: Gilbert discloses: A computer system comprising one or more computers on a network, the one or more computers being configured to process deal information relating to completed transactions of a fungible instrument, comprising (see Gilbert: Fig. 7; [¶¶ 0063-0065]):

• <u>Gilbert</u> does not specifically disclose: A receiver configured to receive best price bid and offer rates of completed transactions in the instrument (see <u>Gilbert</u>: [¶¶ 0008, 0054-0055]);

However, <u>Dawson</u> does disclose: A receiver configured to receive best price bid and offer rates of completed transactions in the instrument (see <u>Dawson</u> who states that the "receiving means may be arranged to receive from at least one

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source samples of trading prices offered in **actual orders**, in addition to prices quoted by other contributors". (See <u>Dawson</u>: [¶ 0024], emphasis added). <u>Dawson</u> further states that "[p]rices derived from **binding offers** in an automated trading system are inherently more authoritative that non binding quotes provided by various information provider" (see Dawson: [¶ 0026] emphasis added & Claim 3).

It would have been obvious to a person of ordinary skill in the art to use the traded transactions in the <u>Gilbert</u> system, in view of <u>Dawson's</u> teaching that binding offers, which essentially are completed transactions, are more authoritative than transaction quotes; and

• A rates processor configured to derive indicative bid and offer rates from the received best price bid and offer rates of completed transactions by defining a minimum indicative rates spread between bid and offer prices and adjusting the received best price bid and offer rates to maintain a spread greater or equal to the defined minimum indicative rates spread and greater than the best price spread (The Examiner notes that by setting the indicative rate bid and offer prices to the received best bid and offer prices and by alternately adding an amount to the indicative offer rates and subtracting an amount from the indicative bid rates until the spread between the indicative bid and offer rates is greater than or equal to the predefined minimum indicative rates spread and greater than the spread between the spread between the best bid and offer prices) (see Gilbert: Fig. 5, where step 503 shows the bids and offers postings of step 350 of Fig. 3B; and step 508 of Fig.

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5 determines if price is better than or equal to market price; [¶¶ 0008, 0010, 0032, 0041, 0051]. Gilbert further teaches: "Qualified traders may be traders that are associated with the best bids and offers. The best bids and offers are bids and offers in the general market that have prices that meet predetermined criteria. The predetermined criteria may include, for example, prices that are within a predetermined range of the market price (e.g., all bids and offers that are within 0.05 of the market price qualify for being admitted into the inside market) or when the number of users joined associated with the best price is greater than or equal to a predetermined number or when the spread (e.g., difference) between the bid and offer prices is less than a predetermined difference...The inside market is similar with respect to the general market, except that only bid and offer prices that improve on the general market price will be accepted for this inside market session." (see Gilbert: [¶ 0010]). It should be noted that a predetermined criteria can be set at any value, while the predetermined difference (e.g., "adjusting") can be larger than the actual spread); and

 <u>Gilbert</u> does not specifically disclose: A data feed for providing the indicative bid and offer rates/providing the indicative bid and offer rates in a data feed (see <u>Gilbert</u>: Claim 2).

However, <u>Gershon</u> does disclose: A data feed for providing the indicative bid and offer rates/providing the indicative bid and offer rates in a data feed (see <u>Gershon</u>: Abstract; [¶¶ 0034-0035, 0079, 0130-0135], where Gershon discloses

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that providing a too wide of a spread reduces the ability to compete in the option market (which is nothing else but a fungible instrument) and yet too narrow a spread may result in losses to the trader. Thus, Gershon's method and system provide for calculating prices to determine what bid/offer spread is appropriate so that the resultant spread is also appropriate. Thus, by feeding the model with real time market data, the model in conjunction with an online trading system whereby on-line transactions are executed at the prices provided by the model and liquidity providers, e.g., market makers and banks, may trade at the model prices instead of providing their own prices. As can be seen, Gershon teaches in Fig. 1, at stage 110 that the model calculates a theoretical value (TV), and at stage 112, the model calculates corrections and weights to apply to the TV to generate the adjusted mid-market price, also referred to herein as corrected TV (CTV). In Fig. 2C, the bid/offer spread may be computed based on the same set of corrections along with a different set of weights, some of which may be time dependent, and in Fig. 2D, after computing the bid/offer spread, the bid and the offer prices are computed, as indicated in block **70** (see <u>Gershon</u>: [¶¶ 0034-0036, 0057-0059, 0089, 0127-0137]).

It would have been obvious to a person of ordinary skill in the art to use the traded transactions in the <u>Gilbert</u> and <u>Dawson's</u> system, in view of <u>Gershon's</u> teachings in order to allow the transmission of automated bids and offers to the trading platform, as shown in <u>Gershon's</u> **Fig. 1** or partially machine-generated

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series of bids and/or offers, which provide additional depth of market in order to

trade more successfully.

Regarding Claim 10: Gilbert, Dawson, and Gershon disclose the previous

claim.

<u>Dawson</u> discloses: wherein the rates processor is further configured to repeat

the derivation of the indicative rates if one or both of the bid and offer sides of the best

prices are unavailable and are then restored (see Dawson: [¶¶ 0027, 0052, 0246-

0266, 0272], where it can be arranged to discard information derived from quoted prices

in favour of information derived from trading prices, subject to predetermined validation

criteria, which may be such as to permit substitution by trading price information

provided that it is within certain tolerance limits derived from the quoted prices. [¶ 0027]

and see Gershon: [¶¶ 0145-0158])

Regarding Claim 11: Gilbert, Dawson, and Gershon disclose the previous

claim.

<u>Dawson</u> discloses: wherein the one or more computers are further configured to

distribute the derived indicative rates to subscribers [¶¶ 0117, 0121, 0492-0493, 0502,

0514] and see Gershon: [¶¶ 0034-0035])

Regarding Claim 12: Gilbert and Dawson disclose the previous claims.

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<u>Dawson</u> does disclose: wherein the one or more computers are further configured to distribute of indicative rates comprises forming an indicative rates panel for distribution and display at the subscribers [¶¶ 0098-0099, 0107, 0117, 0492, 0502, 0514].

**Regarding Claim 13**: <u>Gilbert, Dawson,</u> and <u>Gershon</u> disclose the previous claim.

<u>Dawson</u> discloses: wherein the rates processor is further configured to derive a market high rate and market low rate from the best bid and offer prices and the one or more computers are configured to distribute the market high rate and market low rate to subscribers [¶¶ 0024, 0026, 0082-0083, 0092, 0097, 0101, 0105, 0117, 0165, 0173, 0175-0176, 0183-0184, 0190, 0197, 0203, 0492, 0502, 0514] and see <u>Gershon</u>: [¶¶ 0034-0036, 0057-0059, 0089, 0127-0137]).

**Regarding Claim 14**: <u>Gilbert, Dawson,</u> and <u>Gershon</u> disclose the previous claims.

Gilbert discloses: wherein the rates processor is further configured to derive the market high and low rates by discarding from the received best bids and offers bids and offer prices for which less than a predetermined volume has been dealt at that price between a predetermined number of counterparties over a predetermined period (**Fig. 5**; [¶¶ 0036, 0059, 0062] and see <u>Gershon</u>: [¶¶ 0009, 0014, 0034-0036, 0057-0059, 0089, 0127-0137]).

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**Regarding Claim 15**: <u>Gilbert, Dawson,</u> and <u>Gershon</u> disclose the previous claim.

Gilbert discloses: wherein the rates processor is further configured to record absolute market high and market low rates [¶¶ 0007, 0036].

**Regarding Claim 16**: <u>Gilbert, Dawson,</u> and <u>Gershon</u> disclose the previous claims.

Gilbert discloses: wherein the one or more computers are configured to distribute the absolute market high and low rates to subscribers [¶¶ 0007, 0036].

Regarding Claim 18: <u>Gilbert</u> discloses: A computer system comprising one or more computers on a network, the one or more computers being configured to process deal information relating to completed transactions of a fungible instrument, the computer system comprising (see <u>Gilbert</u>: **Fig. 7**; [¶¶ 0063-0065]):

- A receiver configured to receive best price bid and offer rates of traded transactions in the instrument (See <u>Gilbert</u>: [¶¶ 0008, 0054-0055]); and
- <u>Gilbert</u> does not specifically disclose: a rates processor configured to filter received best price bid and offer rates of traded transactions to remove high frequency fluctuations in the received best price bid and offer rates to obtain indicative bid and offer rates, and to adjust the indicative rates only to maintain a predetermined minimum spread.

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However, <u>Dawson</u> does disclose: a rates processor configured to filter received best price bid and offer rates to remove high frequency fluctuations in the received rates to obtain indicative bid and offer rates, and to adjust the indicative rates only to maintain a predetermined minimum spread (Abstract; [¶¶ 0020, 0023, 0027-0030, 0032, 0046, 0122, 0124, 0131, 0327, 0334, 0429]).

It would have been obvious to modify <u>Gilbert</u>'s teachings with <u>Dawson's</u> teaching to derive a filtering system to remove fluctuations according to certain criteria, in order to obtain indicative rates, thereby maintaining a predetermined minimum spread (see <u>Dawson</u>: [¶¶ 0334, 0429]).

12. Claims 2-4, 6-9, and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over <u>Gilbert et al.</u> (US 2003/0088501, hereinafter referred to as "Gilbert"), in view of <u>Brian T. Dawson</u> (US 2002/0042765, hereinafter referred to as "Dawson"), further in view of <u>David Gershon</u> (US 2005/0027634, hereinafter referred to as "Gershon"), and further in view of <u>Silverman et al</u> (US 5,136,501, hereinafter referred to as "Silverman")

**Regarding Claim 2**: <u>Gilbert</u>, <u>Dawson</u>, and <u>Gershon</u> disclose the previous claim.

Gilbert further discloses: wherein the best price bid and offer rates are received from an automated trading system [¶¶ 0004, 0029, 0034, 0039].

In addition, <u>Silverman</u> is even more explicit then <u>Gilbert</u> and <u>Dawson</u>, in stating the use of an automated stock exchange, as in U.S. Pat. No. 4,412,287, in which a

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computer matches buy and sell orders for a variety of stocks (see <u>Silverman</u>: Column 1, Lines 51-56).

It would have been obvious to a person of ordinary skill in the art to fully automate <u>Gilbert</u>, <u>Dawson</u>, and <u>Gershon's</u> system in view of <u>Silverman's</u> teaching that patent 4,412,287 is an example of a known matching system.

**Regarding Claim 3:** <u>Gilbert, Dawson, , Gershon, and Silverman</u> disclose the previous claims. <u>Gilbert</u> discloses: wherein the best price bid and offer rates are received from an anonymous trading system [¶¶ 0010, 0034, 0039].

Regarding Claim 4: Gilbert, Dawson, and Gershon disclose the previous claim.

Gilbert discloses: wherein the rates processor is further configured to set the indicative rate bid and offer prices to the received best bid and offer prices, and to alternately add an amount to the indicative offer rates and subtract an amount from the indicative bid rates until the spread between the indicative bid and offer rates is greater than or equal to the predefined minimum indicative rates spread and greater than the spread between the best bid and offer prices (see Gilbert: ¶¶ 0010, 0032, 0034, 0039]). Thus, Gilbert states that the predetermined criteria means that the value can be set as desired.

While <u>Silverman</u> states that: "Preferably, in the system of the present invention, at all times the system will display the best inside price for every instrument traded on the system. The best inside price is preferably defined to be the highest value bid and

the lowest value offer in the system." (see Silverman: Column 6, Lines 47-63; Column 13, Lines 14-55; Column 18, Lines 10-66).

It would have been obvious to a person of ordinary skill in the art to modify <u>Gilbert</u>, <u>Dawson</u>, and <u>Gershon's</u> teaching with <u>Silverman's</u> to display less than the best inside price, as it is implicit.

**Regarding Claim 6:** Gilbert, Dawson, and Gershon disclose the previous claim.

<u>Gilbert, Dawson,</u> and <u>Gershon</u> do not specifically disclose: wherein the rates processor is further configured to periodically repeat the derivation of the indicative rates.

However, <u>Silverman</u> does disclose: wherein the rates processor is further configured to periodically repeat the derivation of the indicative rates (Column 6, Lines 37-38). It should be noted that <u>Silverman's</u> "real time" is the same as periodically updating the information.

It would have been obvious to a person of ordinary skill in the art to modify Gilbert and Dawson's teaching with Silverman's teachings to periodically repeat the derivation of the indicative rates.

Regarding Claim 7: Gilbert, Dawson, and Gershon disclose the previous claim.

Gilbert further discloses: wherein the rates processor is further configured to repeat the derivation of the indicative rates if a received best bid or offer is outside the range of the indicative rates instrument (see Gilbert: [¶¶ 0008, 0010, 0032, 0034, 0039,

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0054-0055]). Thus, <u>Gilbert</u> states that the predetermined criteria means that the value can be set as desired. While <u>Silverman</u> states that: "*Preferably, in the system of the present invention, at all times the system will display the best inside price for every instrument traded on the system. The best inside price is preferably defined to be the highest value bid and the lowest value offer in the system." (see <u>Silverman</u>: Column 6, Lines 47-63; Column 13, Lines 14-55; Column 18, Lines 10-66).* 

It would have been obvious to a person of ordinary skill in the art to modify <u>Gilbert</u>, <u>Dawson</u>, and <u>Gershon's</u> teachings with <u>Silverman's</u> teaching to repeat the derivation of the indicative rates, if a received best bid or offer is outside the range of the indicative rates instrument, in view of <u>Silverman's</u> teaching that this is a preferred system.

Regarding Claim 8: Gilbert, Dawson, and Gershon disclose the previous claim.

Gilbert further discloses: wherein the rates processor is further configured to repeat the derivation of the indicative rates if the best prices spread widens such that the best prices are the same as the indicative rates instrument [¶¶ 0008, 0010, 0032, 0034, 0039, 0054-0055]. Thus, Gilbert states that the predetermined criteria means that the value can be set as desired. While Silverman states that: "Preferably, in the system of the present invention, at all times the system will display the best inside price for every instrument traded on the system. The best inside price is preferably defined to be the highest value bid and the lowest value offer in the system." (Column 6, Lines 47-63; Column 13, Lines 14-55; Column 18, Lines 10-66).

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It would have been obvious to a person of ordinary skill in the art to modify <u>Gilbert</u>, <u>Dawson</u>, and <u>Gershon's</u> teachings with <u>Silverman's</u> teaching to repeat the derivation of the indicative rates, if a received best bid or offer is outside the range of the indicative rates instrument, in view of <u>Silverman's</u> teaching that this is a preferred system.

Regarding Claim 9: Gilbert, Dawson, and Gershon disclose the previous claim.

Gilbert further discloses: wherein the rates processor is further configured to repeat the derivation of the indicative rates if the best prices spread plus a predetermined amount is less than the indicative rates spread and the indicative rates spread is greater than the minimum indicative rates spread [¶¶ 0008, 0010, 0032, 0034, 0039, 0054-0055]. Thus, Gilbert states that the predetermined criteria means that the value can be set as desired. While Silverman states that: "Preferably, in the system of the present invention, at all times the system will display the best inside price for every instrument traded on the system. The best inside price is preferably defined to be the highest value bid and the lowest value offer in the system." (Column 6, Lines 47-63; Column 13, Lines 14-55; Column 18, Lines 10-66).

It would have been obvious to a person of ordinary skill in the art to modify <u>Gilbert</u>, <u>Dawson</u>, and <u>Gershon's</u> teachings with <u>Silverman's</u> to repeat the derivation of the indicative rates if the best prices spread plus a predetermined amount is less than the indicative rates spread and the indicative rates spread is greater than the minimum

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indicative rates spread. Therefore, it is implicit that it is generally necessary to recalculate so that the "predetermined criteria" is maintained.

Regarding Claim 19: Gilbert and Dawson disclose the previous claim.

Gilbert discloses: wherein the rates processor is further configured to adjust indicative rates by adjusting the received best price bid and offer rates to maintain a bid/offer price spread greater or equal to a defined minimum rates spread and greater than the best price bid and offer rates spread. [¶¶ 0010, 0032, 0034, 0039]. Thus, Gilbert states that the predetermined criteria means that the value can be set as desired.

While <u>Silverman</u> states that: "Preferably, in the system of the present invention, at all times the system will display the best inside price for every instrument traded on the system. The best inside price is preferably defined to be the highest value bid and the lowest value offer in the system." (Column 6, Lines 47-63; Column 13, Lines 14-55; Column 18, Lines 10-66).

It would have been obvious to modify <u>Gilbert</u> and <u>Dawson's</u> teachings with <u>Silverman's</u> teaching that it is preferable to adjust the received best price bid and offer rates to maintain a bid/offer price spread greater or equal to a defined minimum rates spread and greater than the best price bid and offer rates spread.

13. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gilbert et al. (US 2003/0088501, hereinafter referred to as "Gilbert"), in view of

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<u>Brian T. Dawson</u> (US 2002/0042765, hereinafter referred to as "Dawson"), in view of <u>David Gershon</u> (US 2005/0027634, hereinafter referred to as "Gershon"), in view of <u>Silverman et al</u> (US 5,136,501, hereinafter referred to as "Silverman"), and in further view of <u>Togher et al</u>. (US 6,014,627, hereinafter referred to as "Togher")

**Regarding Claim 5:** <u>Gilbert, Dawson, Gershon, and Silverman</u> disclose the previous claims.

Gilbert, Dawson, Gershon, and Silverman do not specifically disclose: wherein the amount to add or subtract is a single pip (see Gershon: Fig. 2D; [¶ 0137]).

However, <u>Togher</u> does disclose: wherein the amount to add or subtract is a single pip (see <u>Togher</u>: **Fig. 2**; "Pips" **24, 26** portion of the Dealable price; Column 7, Lines 6-19; Column 8, Lines 19-29; Column 10, Lines 13-28; Column 11, Lines 18-51).

It would have been obvious to a person of ordinary skill in the art to modify <u>Gilbert, Dawson, Gershon,</u> and <u>Silverman</u>'s teachings in view of <u>Togher's</u> teaching to add or subtract a single pip.

### Inquiries

14. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Barbara Joan Amelunxen whose telephone number is (571) 270-5297. The Examiner can normally be reached on Monday-Friday -- 07:30-17:00.

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If attempts to reach the examiner by telephone are unsuccessful, the Examiner's supervisor, James P. Trammell can be reached on (571) 272-6712. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

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/B. J. A./

Examiner, Art Unit 3694

November 20, 2010

/Shahid R Merchant/ Primary Examiner, Art Unit 3694